



Measuring Mission Capability

**L&MR Materiel Readiness
Offsite
January 2005**





Managing Operational Capability

- The Defense Readiness Reporting System (DRRS) is a net-centric platform for highlighting organizational capability and the operational consequences therein
 - Commanders' assessments of mission and task capabilities
 - Detailed measures of resource status
- Organizational commanders must understand the operational consequence of resource status—e.g. can my aircraft support precision strike operations? What about tanking?
 - Use of MC rates have evolved over time and are now commonly used as a proxy for equipment capability
 - Requires tracking whether platforms are capable of performing specific missions

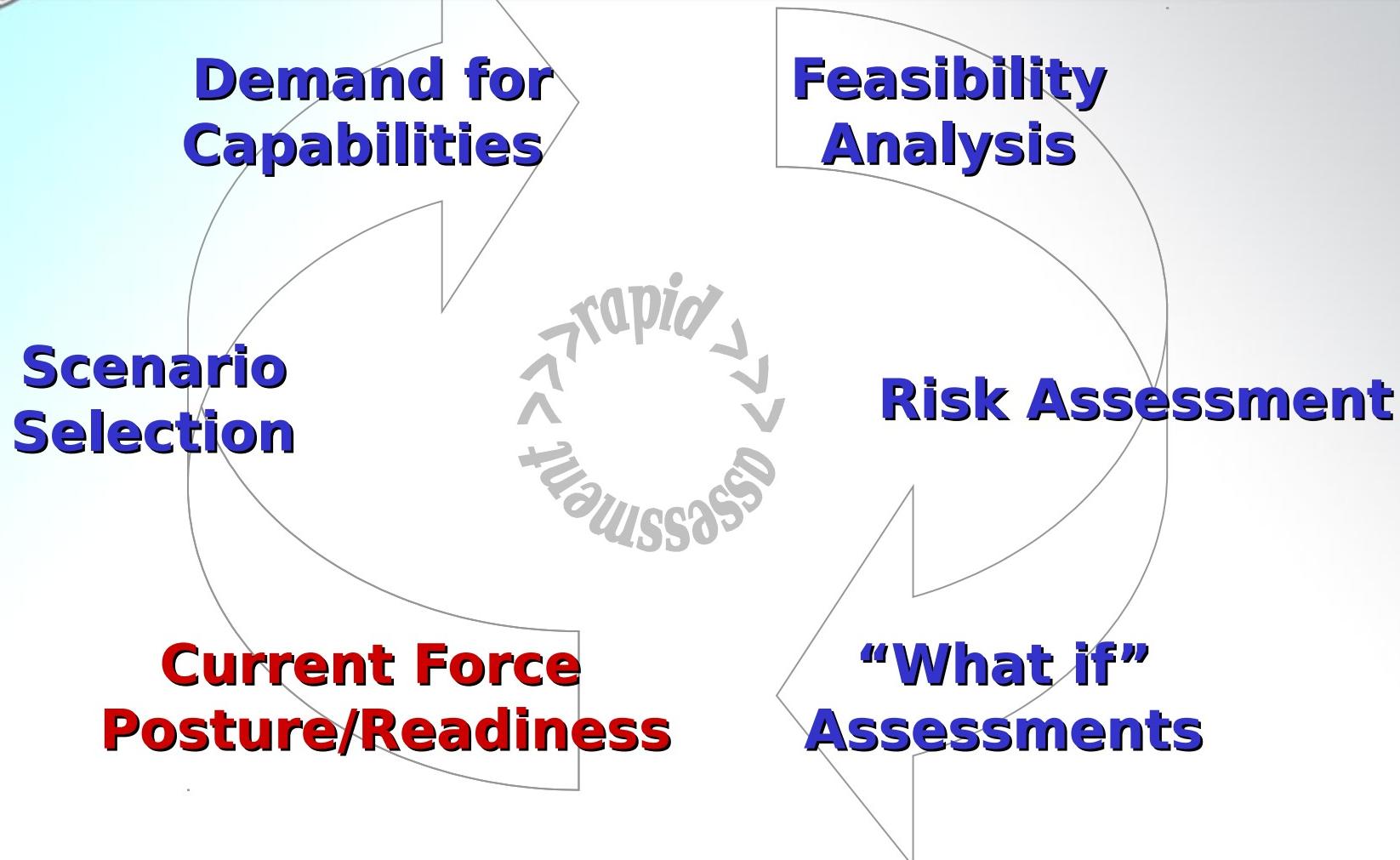


DRRS Objectives

- **Expand the way we measure force status**
 - Focus on forces and missions
 - Includes Joint and operational units as well as CSAs
- **Focus how we think of readiness**
 - Beyond narrow resource accounting
 - Synonymous with capability—What can forces do?
 - In the context of assigned missions
- **Improve our ability to assess risk**
 - Uses collaborative tools linked to near-real time data
 - Requires operational context —What can't forces do?
- **Link deficiencies to operational impact**
 - Builds in the identification of mitigation strategies
 - Considers readiness reporting, risk assessment and adaptive planning as one large, iterative process



What can forces do?



Tools for Managing Joint Forces

Portal



Defense Readiness Reporting System

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ESORTS SCENARIO LIBRARY FORCE BUILDER FEASIBILITY ANALYSIS RISK ASSESSMENT ADAPTIVE PLANNING

Welcome COL Smith of the 51st Operations Group

Current Status

| Core Task | 2004 Feb 16 | Q | CORE |
|-------------|-------------|---|-----------------------|
| Major Plans | 2004 Feb 16 | Q | 55204 |
| | 2004 Feb 16 | Y | 55205 |
| | 2004 Feb 16 | N | 55206 |

Named Operations

| 2004 Feb 16 | Q | OEF |
|-------------|---|---------------------|
| 2004 Feb 16 | Y | OIF |

Home Location

| Andrews AFB |
|-------------|
|-------------|

Assessment Watch List

| Admin Command | Last Assessment |
|-----------------------|-----------------|
| 51st Fighter Wing | 1 April 2004 |
| 51st OPS Group | 1 April 2004 |
| 36th Fighter Squadron | 1 April 2004 |
| 55th Airlift Flight | 1 April 2004 |
| 51st Support Group | 1 April 2004 |
| 51st Medical Group | 1 April 2004 |
| 51st Logistics Group | 1 April 2004 |

Other Related Organizations

| 5th Airforce | 1 April 2004 |
|--------------|--------------|
| 7th Airforce | 1 April 2004 |
| TRANSCOM | 1 April 2004 |

Rapid Assessment

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| Add Topic | View Topics | Search |
|----------------------|-------------|-----------------|
| Topic | # of Posts | Last Post Date |
| RML Specification | 20 | 5/7/04 10:05 am |
| Assessment Prototype | 5 | 4/28/04 8:15 pm |

Related Links

- [JDEIS Task Search](#)
- [UJTL](#)
- [JMEL Development Handbook](#)
- [Joint Training Manual](#)

DRRS Admin Tools

User Tools

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Unit Administrator Tools

[Unit Mission Management](#)
[Unit Admin](#)
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System Administrator Tools

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| RML Spec | 1 | 4/28/04 8:15 pm |

Notional Information for
briefing purposes

My Computer



Assess MET

METL Process



Defense Readiness Reporting System

ESORTS SCENARIO LIBRARY FORCE BUILDER FEASIBILITY ANALYSIS RISK ASSESSMENT ADAPTIVE PLANNING

Assessment GSORTS Personnel Equipment Training Supply Ordnance

51st Operations Group - Active Assessment

Core Tasks Major Plans Named Ops Overall VIEW | EDIT

| Mission Info | | Unit Mission Info | | Mission Assessment | |
|--|--|--|--|---|--|
| Major Plan: 55204 Plan End Date: June 2005 Operational Command: USFK | | Employment Duration: 1 year Mission Statement Current Location: Osan AFB Operational Parent: 51st Wing | | Mission Assessment: Q Approve Last Approved: 01-May-2004 Status: In Staffing View All Remarks | |

| Mission Essential Tasks | | | | ORG/OPR | Remarks | Last Reviewed | Rating |
|--|---------|------|----|-------------|-------------|--|--|
| <input checked="" type="checkbox"/> AFT 4.2.1.2 Conduct Close Air Support (CAS). Standard Edit | | | | OG | Y | 15-May-2004 | Q |
| Of desired tactical effects achieved. | Percent | >=95 | 90 | 92 | 15-Jan-2004 | Y | 13-Jun-2004 Worse |
| To provide close air support operations at the request of friendly surface forces. | Hours | >=12 | 13 | 14 | 13-Feb-2004 | N | 20-Aug-2004 Better |
| Staff Tasks | | | | DOW | Y | 15-May-2004 | N |
| <input checked="" type="checkbox"/> AFT 4.2.2 Educate and Train Counterland Forces. <input checked="" type="checkbox"/> AFT 4.2.4 Plan Counterland Functions. | | | | MPC | Y | 15-May-2004 | Q |
| Subordinate Unit Tasks | | | | 36SO/DO | Y | 15-May-2004 | Q |
| <input checked="" type="checkbox"/> AFT 4.2.1 Perform Strategic Attack. <input checked="" type="checkbox"/> AFT 2.1.3 Equip Forces with Lethal Precision Engagement Capabilities. | | | | TRANSCOM/J2 | Y | 15-May-2004 | Y |
| tions Interdiction of Operational Forces/Targets. pport of Operational Maneuver. | | | | OG | Y | 01-Jan-2004 | Y |
| | | | | OG | Y | 28-May-2004 | Q |

Notional Information for briefing purposes



ESORTS

- Mission views
 - Based on Mission Essential Tasks (METs)
 - Assessments of the organization's ability to conduct
 - Specific tasks
 - Assigned missions
- Resource views
 - Supports mission assessments
 - Based on disaggregate resource data (personnel, equipment, supplies, ordnance and unit training)
 - User-defined query capabilities
 - Supports mission capability assessments
- Force management tools
 - Applications to support Department-wide searches for available capabilities



Top-Level Resource Metrics

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DRRS Defense Readiness Reporting System

My Views GSORTS Status Summary Status Organization Capability NORTHCAM PLAN

Summary Status Personnel Equipment Ordnance Training

Setup

Results

Drag a column header here to group by that column.

| Unit Name | UIC | PER OH% | PER DEP% | OFF OH% | ENL OH% |
|------------------------|--------|---------|----------|---------|---------|
| 0855 CS CO FLD SVC DS | WZNVA | | | | |
| CG 49 VINCENNES | N21295 | 50 | 100 | 11 | 89 |
| CG 62 CHANCELLORSVILLE | N21451 | 63 | 100 | 30 | 96 |
| CG 63 COWPENS | N21623 | 51 | 100 | 8 | 95 |
| CV 63 KITTY HAWK | N03363 | 63 | 100 | 34 | 93 |
| CVW 5 | N09733 | 64 | 100 | 42 | 86 |
| DD 975 O'BRIEN | N20601 | | | | |
| DD 985 CUSHING | N20617 | 50 | 100 | 8 | 93 |
| DDG 54 WILBUR C | N21640 | 60 | 100 | 27 | 94 |
| DDG 56 MCCAIN JS | N21686 | 53 | 100 | 15 | 91 |
| FFG 48 VANDEGRIFT | N21200 | 54 | 100 | 20 | 88 |
| FFG 51 GARY | N21232 | 45 | 100 | 4 | 87 |
| HS 14 | N09209 | 46 | 100 | 0 | 92 |
| VAQ 136 | N09973 | 47 | 100 | 0 | 95 |



Drilldown (Equipment)

SECRET

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Defense Readiness Reporting System

My Views GSORTS Status Summary Status Organization

Summary Status Personnel Equipment Ordnance Training

Unit Search CV 63 KITTY HAWK

| Drag a column header here to group by that column. | | | | | |
|--|-----------|--------------|-----|-----|-----|
| Unit Name | EQP OVL | CASREP Count | | | |
| CV 63 KITTY HAWK | 85 | 10 | | | |
| Name | Allocated | On Hand | FMC | PMC | NMC |
| 54460-1 (E-2 PROP) | 2 | 0 | 0 | 0 | 0 |
| A/A42R ARS S-3 | 19 | 19 | 18 | 0 | 1 |
| AAS-38 FLIR | 2 | 2 | 2 | 0 | 0 |
| AAS-38A TFLIR | 16 | 16 | 13 | 0 | 3 |
| ALQ-99 BAND 1 XMTR | 4 | 4 | 4 | 0 | 0 |
| ALQ-99 BAND 2 XMTR | 5 | 5 | 4 | 0 | 1 |
| ALQ-99 BAND 4 XMTR | 9 | 9 | 9 | 0 | 0 |
| ALQ-99 BAND 5/6 XMTR | 9 | 9 | 5 | 0 | 4 |
| ALQ-99 BAND 7 XMTR | 14 | 14 | 13 | 0 | 1 |
| ALQ-99 BAND 8 XMTR | 11 | 11 | 11 | 0 | 0 |
| ALQ-99 BAND 9 XMTR | 7 | 7 | 7 | 0 | 0 |
| ALQ-99 BAND 9/10 XMTR | 8 | 8 | 8 | 0 | 0 |
| ALQ-99 UEU | 21 | 21 | 19 | 0 | 2 |
| ASQ-173 LDT | 8 | 8 | 6 | 0 | 2 |
| ASQ-228 ATFLIR | 8 | 8 | 6 | 0 | 2 |
| F404-GE-400 | 2 | 3 | 1 | 0 | 0 |
| F404-GE-400A (AB) | 1 | 1 | 1 | 0 | 0 |
| F404-GE-400C (HPC) | 1 | 0 | 0 | 0 | 0 |
| F404-GE-400F (FAN) | 1 | 1 | 1 | 0 | 0 |
| F404-GE-400H (HPT) | 1 | 1 | 1 | 0 | 0 |
| F404-GE-400L (LPT) | 1 | 3 | 3 | 0 | 0 |
| F404-GE-400S (COMB) | 1 | 1 | 1 | 0 | 0 |
| F404-GE-402 | 3 | 2 | 1 | 0 | 0 |
| F404-GE-402A (AB) | 2 | 2 | 1 | 0 | 0 |
| F404-GE-402C (HPC) | 2 | 2 | 2 | 0 | 0 |

| Drag a column header here to group by that column. | | | | | | | |
|--|--------|--------------|-----------|--------|---------|--------------------------|----|
| CASNUM | CASCAT | INIT DATE | DAYS OPEN | UP NBR | MSG DTG | EQUIP DESC | ES |
| 2003154 | 2 | 060030ZDec03 | 299 | 10 | | INTEG COND ASSES SYS | 13 |
| 2004139 | 2 | 080230ZJul04 | 84 | 4 | | ANUSQ-123B(V), CHBTL-ST | 20 |
| 2004157 | 2 | 040030ZAug04 | 57 | 1 | | ANALYZER, GAS, BLOOD | 05 |
| 2004162 | 2 | 100830ZAug04 | 51 | 1 | | 4B2 FDB STM ADM VLV | 30 |
| 2004164 | 2 | 140830ZAug04 | 47 | 3 | | NR1 SSTG | 05 |
| 2004169 | 2 | 250630ZAug04 | 36 | 1 | | MK23 TGT AQUISITION SYS | 20 |
| 2004173 | 2 | 290830ZAug04 | 32 | 1 | | CKT-HC-CW IND SYSTEM | 28 |
| 2004178 | 2 | 311130ZAug04 | 30 | 1 | | BOW WIND SPD-DIR IND | 29 |
| 2004180 | 2 | 030530ZSep04 | 27 | 1 | | LAUNCHING SYSTEM, MISSIL | 23 |
| 2004181 | 2 | 052130ZSep04 | 25 | 0 | | 2 ACE PPG SYS, HYDRAULIC | 04 |



Force Management Tools

Defense Readiness Reporting System

My Views GSORTS DRRS Resource Status Total US Forces

Total U.S Uniformed Personnel: 74

| Air Force: 0 | Army: 0 | Marine Corp: 0 | Navy: 74 |
|------------------------------------|-------------------------------|---------------------------------|---------------------------------|
| Air Force AC 0 Select Reserve 0 | Army AC 0 Select Reserve 0 | Marine AC 0 Select Reserve 0 | Navy AC 45 Select Reserve 19 |
| Air Force NC 0 IRR 0 | Army NC 0 IRR 0 | Marine NC 0 IRR 0 | Navy NC 29 IRR 10 |

Force Availability:

NAVY Select Reserve

12 of 1,897 [Next >](#)

| Force | Unit | UIC | UTC | CDR | OVL | LOC |
|-------|-----------------------|--------|----------------------------|-----|-----|-----|
| Navy | 2 RVP CO | NA3332 | Misc | 4 | Y | |
| Navy | ACU 1 | N53257 | Transportation and cargo | 3 | Y | |
| Navy | ARDM ALAMOGORDO | NO5367 | Fleet Auxiliaries | 3 | G | |
| Navy | BPT D | N44923 | Naval Support Element | 3 | Y | |
| Navy | BPT E | N44924 | Service HQ, Major Staff | 4 | Y | |
| Navy | CGCF PADUCAH KY | NB0243 | Warships, Craft, and admin | 4 | G | |
| Navy | CG 51 THOMAS S GATES | N82911 | Transportation and cargo | 3 | G | |
| Navy | COGARD MSO ANCHORAGE | NA3332 | Fleet Auxiliaries | 3 | Y | |
| Navy | COGARD MSO HUNTINGTON | N53257 | Naval Support Element | 3 | Y | |
| Navy | ARDM ALAMOGORDO | NO5367 | Service HQ, Major Staff | 3 | Y | |
| Navy | BPT D | N44923 | Warships, Craft, and admin | 4 | Y | |
| Navy | BPT E | N44924 | Transportation and cargo | 3 | G | |

Enter Code or keyword [Search](#)



Need Precise Measures of Equipment Mission Capability

- MC and FMC goals are notoriously problematic
 - Recent audits suggest goals have little foundation
 - In a fiscally constrained environment, adhering to FMC goals is difficult
 - Adhering to MC goals do not necessarily guarantee a capability in any one mission
- MC is most meaningful when associated with specific missions
 - It is difficult to interpret the operational consequences of a low MC rate
 - MC by mission or capability solves ambiguity problem
 - Absent that, only way to protect key missions is to set strict FMC goals



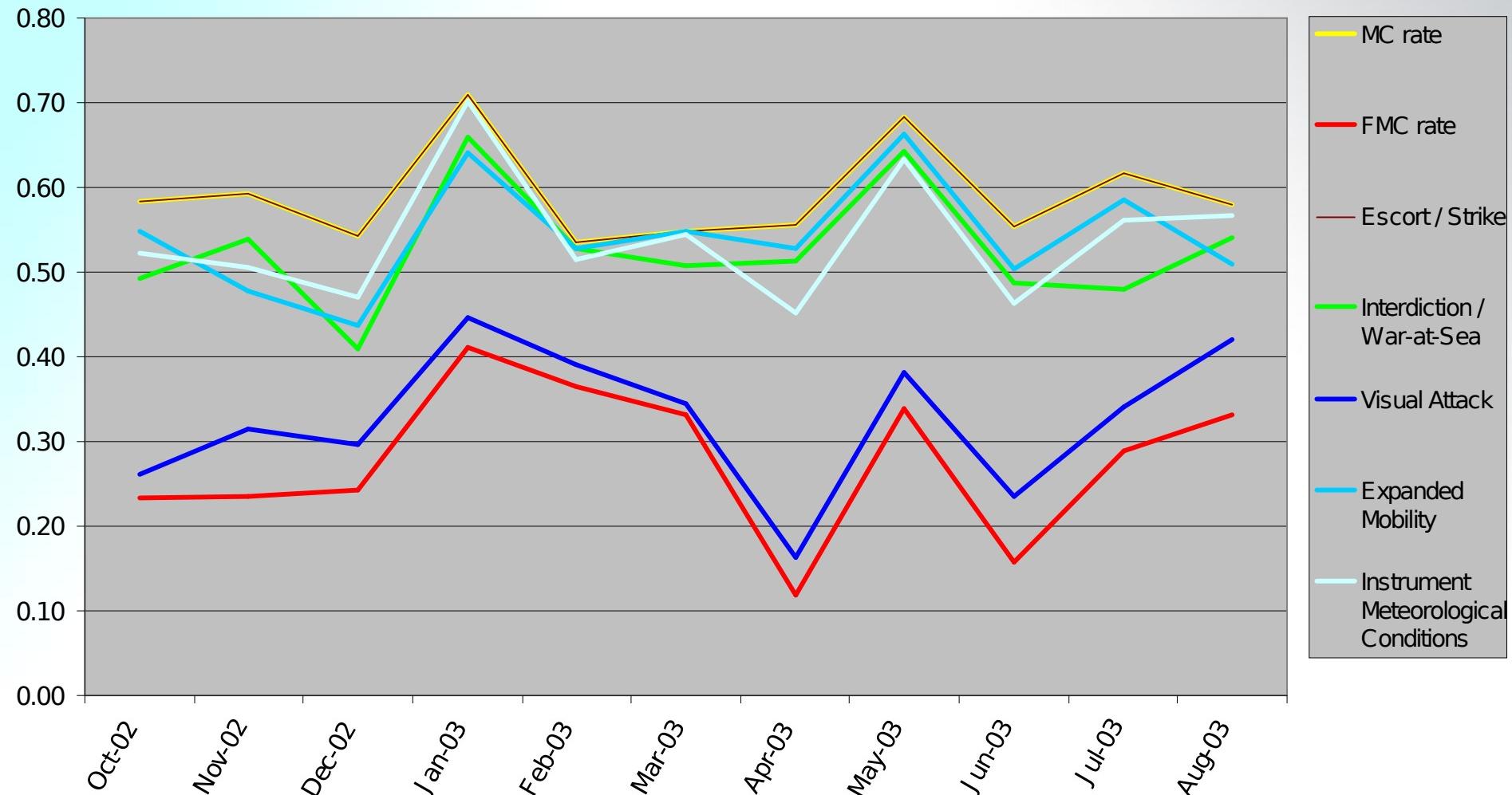
Anatomy of a Solution

- Define the core missions or capabilities for each platform type
- Identify the number of platforms that are capable of performing each core mission
 - Final solution: Use existing maintenance systems to link individual failures to subsystems and ultimately missions. Can electronically track and calculate MC by core missions much like MC rates are currently calculated (ex: USN's NALCOMIS)
 - Interim solution: Maintain a daily spot check on the capability of each platform relative to core missions
- Include corollaries for ships, submarines and multi-mission ground equipment
- Identify goals consistent with operating requirements for those missions



Navy Aviation Example

MC by Mission area for VFA 106





Defining “core capabilities”

- Defined by the Services
- Based on operational requirements
- Specific enough to identify whether platforms are capable of conducting mission tasks
 - Missions that are not “mechanically” discernable should be combined
- Updated as necessary to reflect common mission tasking



BACKUP SLIDES



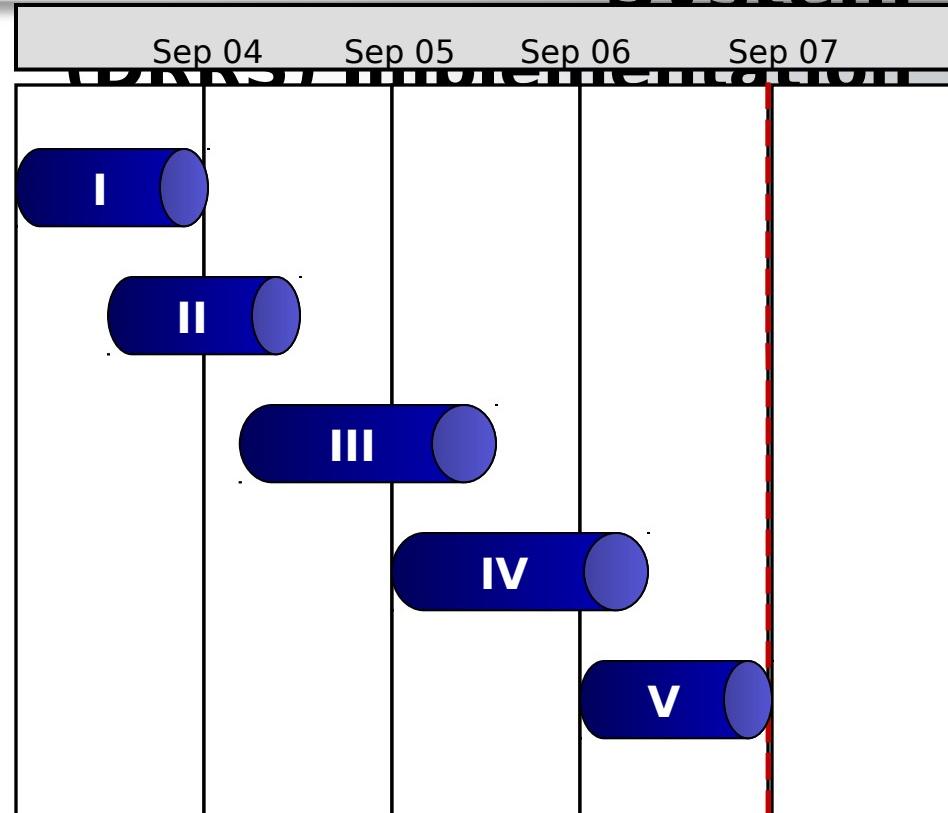
DRRS URL

- SIPRNET:
 - <https://drrs.deccpac.disa.smil.mil/index.html>
- Follow the registration/new account prompts

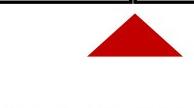


Defense Readiness Reporting System

- I. Initial capability
 - Portal and Registration
 - Build and assess MET
 - Resource Displays
- II. Expanded resource displays, **GFM query capabilities**, scenario library, initial force allocation module
- III. Mobility and transportation models, expanded force allocation software
- IV. Primary risk assessment applications
- V. Full risk and scenario assessment capability



**Initial Capability on
SIPRNET**



**Development
Ends**

**SPG MET Reporting
Deadline**



Authoritative Data Sources

| | ARMY | AIR FORCE | MARINE CORPS | NAVY | JOINT |
|--------------|--------|-----------|---------------|-----------------|--------|
| PERSONNEL | ITAPDB | MILPDS | TBD | EDB | EJMAPS |
| EQUIPMENT | TAADS | DCAPES | MERIT TRMS | TRMS | GCSS |
| SUPPLY | TAADS | DCAPES | MERIT TRMS | IRRI | GCSS |
| TRAINING | DTMS | DCAPES | SHARP | TRAREP SHARP | DTMS |
| ORDNANCE | TBD | DCAPES | TBD | CAIMS | GCSS |
| LOCATION | TBD | ART | TBD | TRMS | BFT |
| ORG | DART | ART | GSORTS | TRMS | GSORTS |
| READINESS | ASORTS | ART | GSORTS | TRMS | GSORTS |
| AVAILABILITY | DART | ART | MCMPS | DRRSN | JOPES |